

Abstract

[0081] The present invention is directed to an implantable vascular prosthesis configured for use in a wide range of applications, such as treating aneurysms, maintaining patency in a vessel, and allowing for the controlled delivery of therapeutic agents to a vessel wall. The prosthesis comprises a helical proximal section coupled to a distal anchoring section having a generally zig-zag or cell-like configuration. The prosthesis is configured to conform to a vessel wall without substantially remodeling the vessel, and further is configured to be precisely deployed in a vessel without shifting during deployment. The prosthesis also has a substantially small delivery profile compared to other known stents, while having an increased surface area to enhance delivery of therapeutic agents.